Bridget Bangert

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Experience

Accenture

Data Engineering Senior Analyst June 2024 – Present

- Enhanced a Kafka ingest framework to modernize ETL processes of over 15 source systems by solutioning a metadata-driven column-mapping functionality to improve data transformations and system scalability
- Automated data validation processes by implementing JDBC and the Databricks REST API, reducing manual validations efforts by 90% and simplified the data monitoring process
- Acted as the point of contact for multiple frameworks, assuming a lead developer role by maintaining documentation and providing guidance to a team of 8 developers, ensuring timely deployment of deliverables
- Adapted data pipelines for an environment cutover after 3 years of using a legacy system, ensuring compatibility of all applications with the new infrastructure

Accenture

Data Engineering Analyst Feb 2023 – June 2024

- Contributed to machine learning pipeline development, assisting with data preprocessing and optimizing training/test data splits to support the ARIMA algorithm and improve model accuracy and pipeline efficiency
- Developed and productionalized a data aggregation framework that integrated data from 6 teams, streamlining reporting processes and improving overall team efficiency
- Performed detailed data analysis and troubleshooting, identifying and resolving inconsistencies in reports while collaborating with the PowerBI team to ensure accurate and consistent outputs
- Optimized and developed a data ingestion framework for over 30 pipelines using Azure Data Factory, Azure Blob Storage, and Databricks, enabling scalable processing of billions of rows daily for analytics and modeling

Projects

Predictive Modeling for Traffic Predictions (Graduate-Level Rework) Dec 2024 – Present

- Re-engineered an undergraduate datathon project by incorporating data engineering techniques, including web scraping and utilizing REST APIs for dynamic data collection, parallelizing the data ingestion process, and loading the data into a Delta Lake for efficient storage and querying

Long COVID-19 Vulnerability Analysis and Forecasting Sept 2022 – Dec 2022

- Conducted analysis on 16 N3H datasets to forecast high-risk populations most vulnerable to Long COVID-19, utilizing machine learning techniques including XGBoost for predictive modeling, PCA for dimensionality reduction, and hyperparameter tuning for optimization, while collaborating with a research team to deliver and present insights

Education

Texas State University – San Marcos, TX

Master of Science in Mathematics with Statistics concentration May 2025

Bachelor of Science in Mathematics Dec 2022

Skills

Programming Languages: Python, SQL, R, Java, JavaScript, Bash, C++

Data Engineering Frameworks: Apache Spark, Kafka, Hadoop, Cassandra

Cloud: Microsoft Azure (Databricks, Data Factory, Delta Lake Storage, SQL Database)

Tools & Methodologies: Git, CI/CD, Agile (Scrum, Kanban)